

ZigBee

Redefine Anti-Glaring & Smart control

"Anti-glaring light is required more and more for applications where people doesn't feel comfortable with the glaring light, especially when the lights were not very high. Mildbeam is the ideal solution for visual protection. This increases the performance of staff and the quality of their work."

Anti Glaring

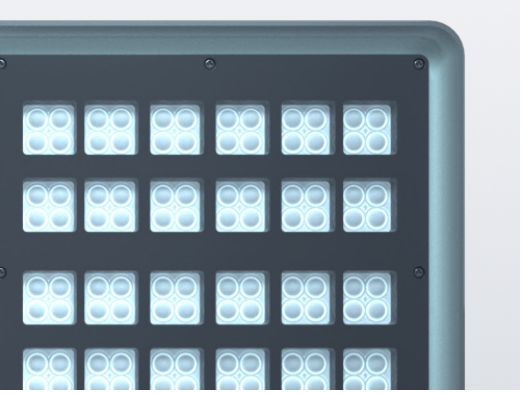


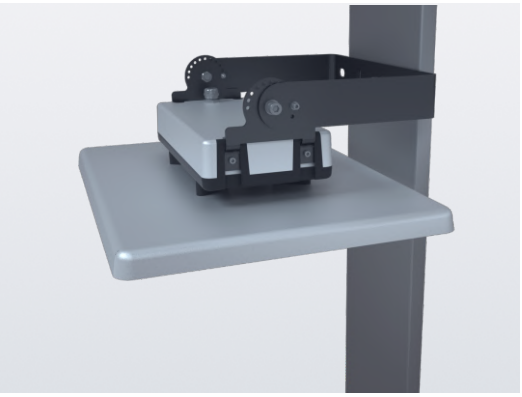
U G R < 1 9

Anti-glaring light is required more and more for applications where people doesn't feel comfortable with the glaring light, especially when the light were not very high. MILDBEAM is the ideal solution for visual protection. This increases the performance of staff and the quality of their work.











Europe Design Patent



- **Advanced UGR technology**

  The Optics was specially developed to minimize glare and maximize homogeneity. With an anti-galring film on the lens and a shield in front, we managed to achieve UGR<20

- **Simple installation**

  With ceiling installation accessory equipped with mains lead, the two suspension points at the ceiling could be combined to One-Point installation. This saves time and cost for installation. And even vibrations and air movements are no longer able to twist it.

Patent



ZigBee

U G R < 1 9
Soft Vidual

Features

Housing: Pure Aluminum
Thermal Conductivity: 226 W/m·K
Led: CREE 3030
CRI: Ra>80
SDCM: <5
Power Factor: >0.95
THD: <15
Driver: Meanwell series
Driver Efficiency: >93%
Protection: OTP, OCP, OVP, SCP
Surge Protection: 10KV
Waterproof: IP65
Impact Test: IK10
Electrical: 180-277Vac, 50/60Hz
Operating Temperature: -40~50℃
TM21: L90B10>50,000H
Lifetime: 50,000H

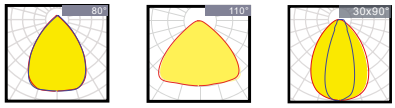
AC220~240V | -40~+50 | IP65 | IK10 | 10KV Surge Protection | RG 0/1 | 50.000H | Dimmable | Emergency | +90% Efficient | INSTANT FULL LIGHT | 100% WARRANTY

Functions

ZigBee · PWM · DALI · 0/1~10V · Micro-wave



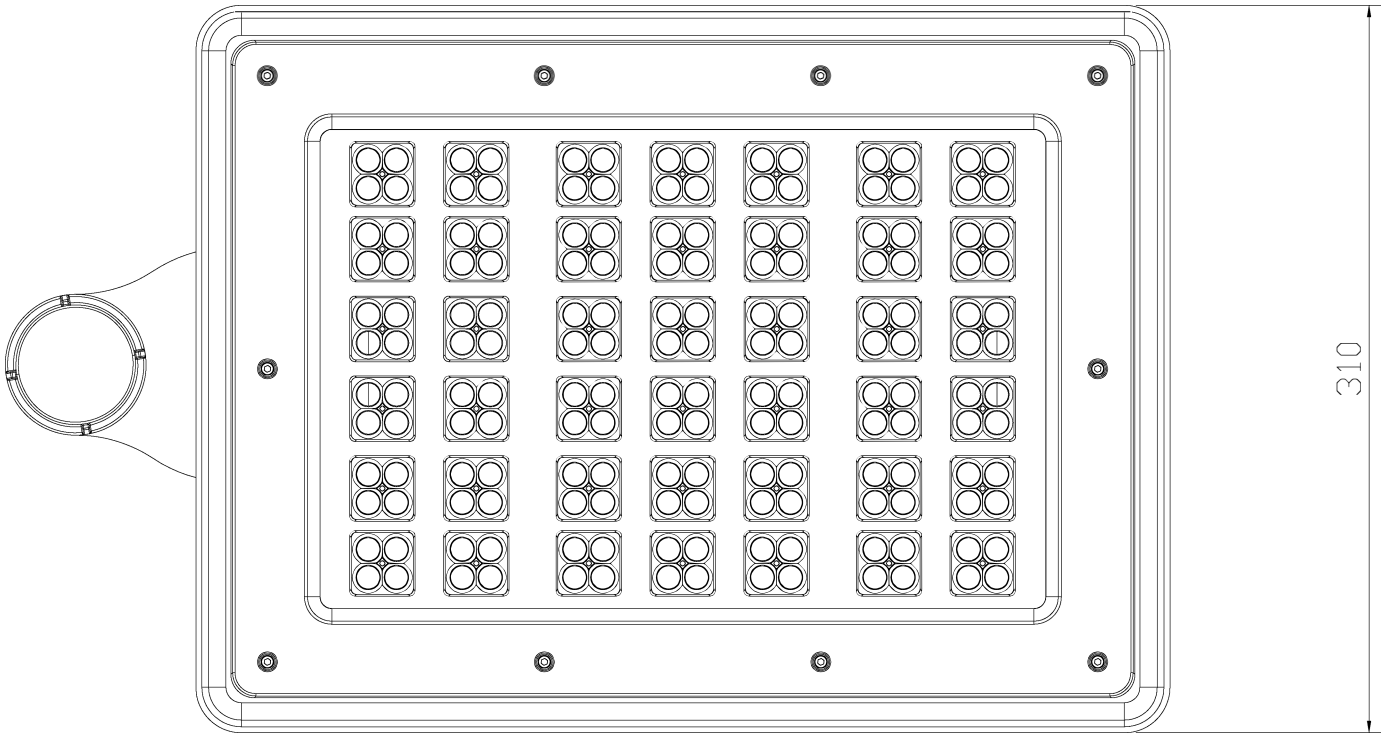
Optical options:

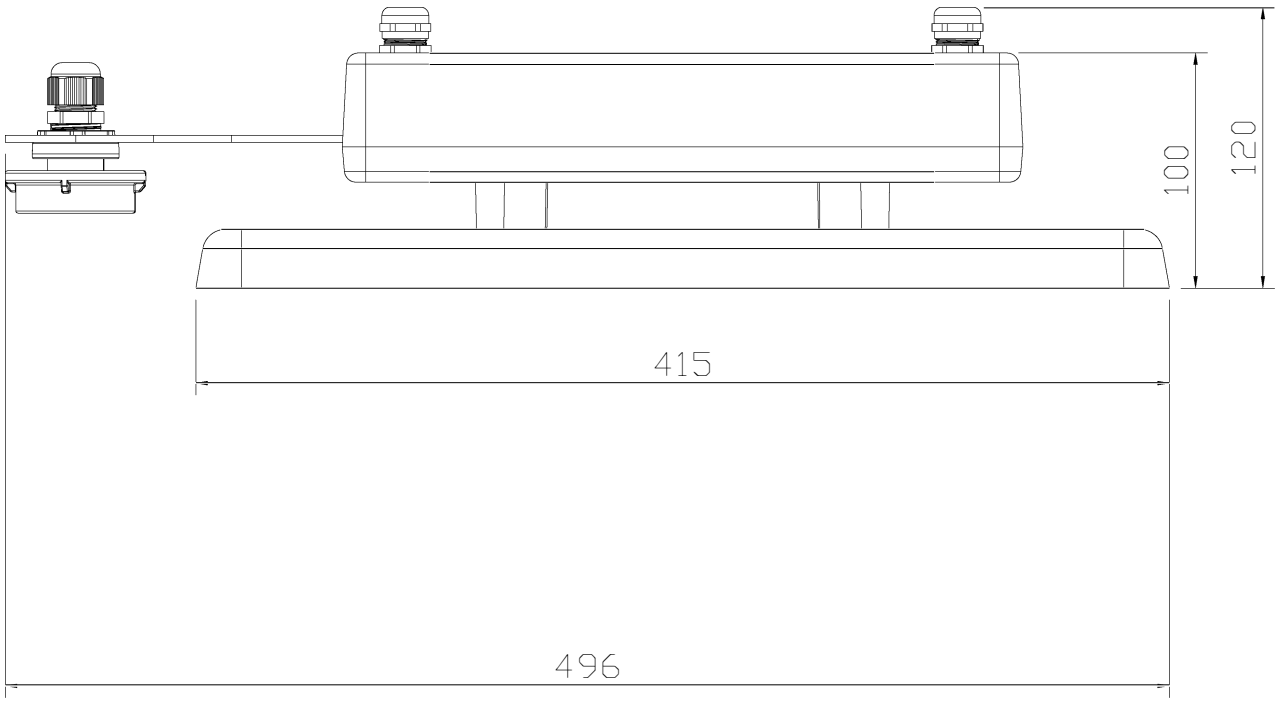


130lm/w | 5 YEARS WARRANTY | Meanwell Driver | CREE LED

Model	Watt	Voltage	Lumen	CRI	CCT	Dimension
HB060ME2F-CI-Z	60W	220~240V	7800LM	> 80	@4000K	L362*W257*H120MM
HB100ME2F-CI-Z	100W	220~240V	13000LM	> 80		L362*W257*H120MM
HB150ME2F-CI-Z	150W	220~240V	19500LM	> 80		L415*W310*H120MM
HB200ME4F-CI-Z	200W	220~240V	26000LM	> 80		L487*W362*H120MM
HB300ME6F-CI-Z	300W	220~240V	39000LM	> 80		L720*W365*H130MM
HB360ME6F-CI-Z	360W	220~240V	43200LM	> 80		L720*W365*H130MM

Dimensional Drawing





Model:HB150ME4F-CI-Z

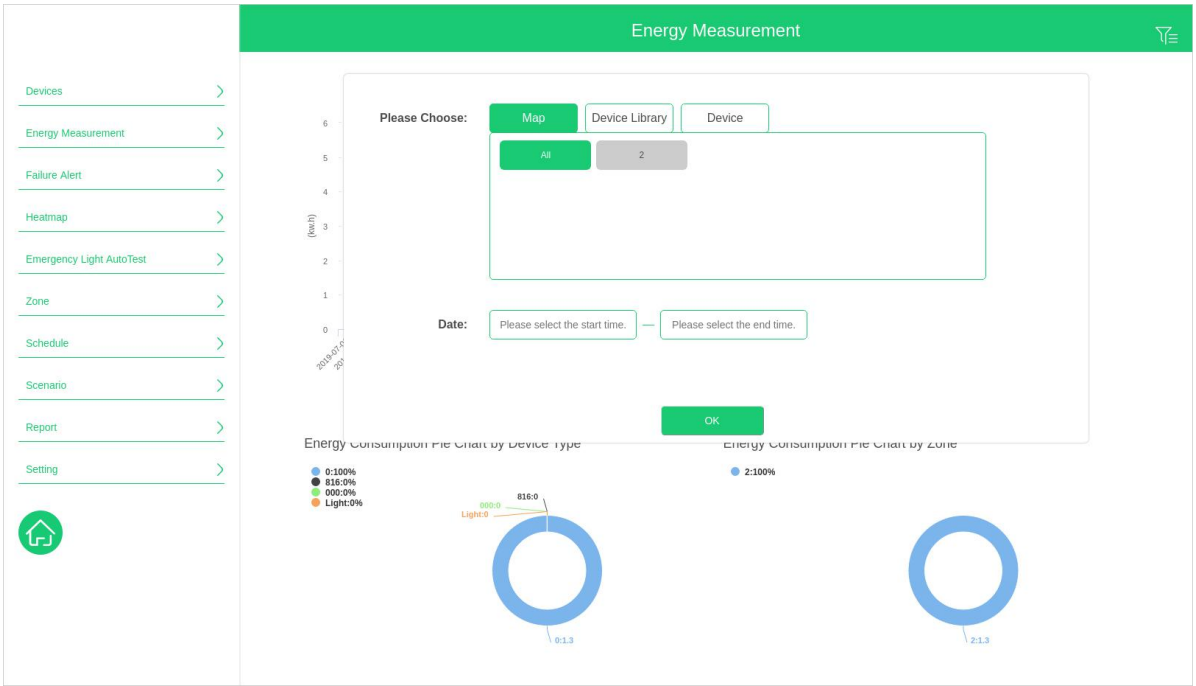
Advantage I ：Energy Measurement

Click “Energy Measurement” on Pic 2 to enter into Energy Measurement interface (Pic 15). To check energy data in column/ pie chart, energy saved/ used in exact kw.h and electric charge if “Electric Charge Setting” is set in “Parameter Setting”.

Click icon right up corner of Pic 15, to show energy data of multiple or individual device over a certain period of time. (Pic 16)



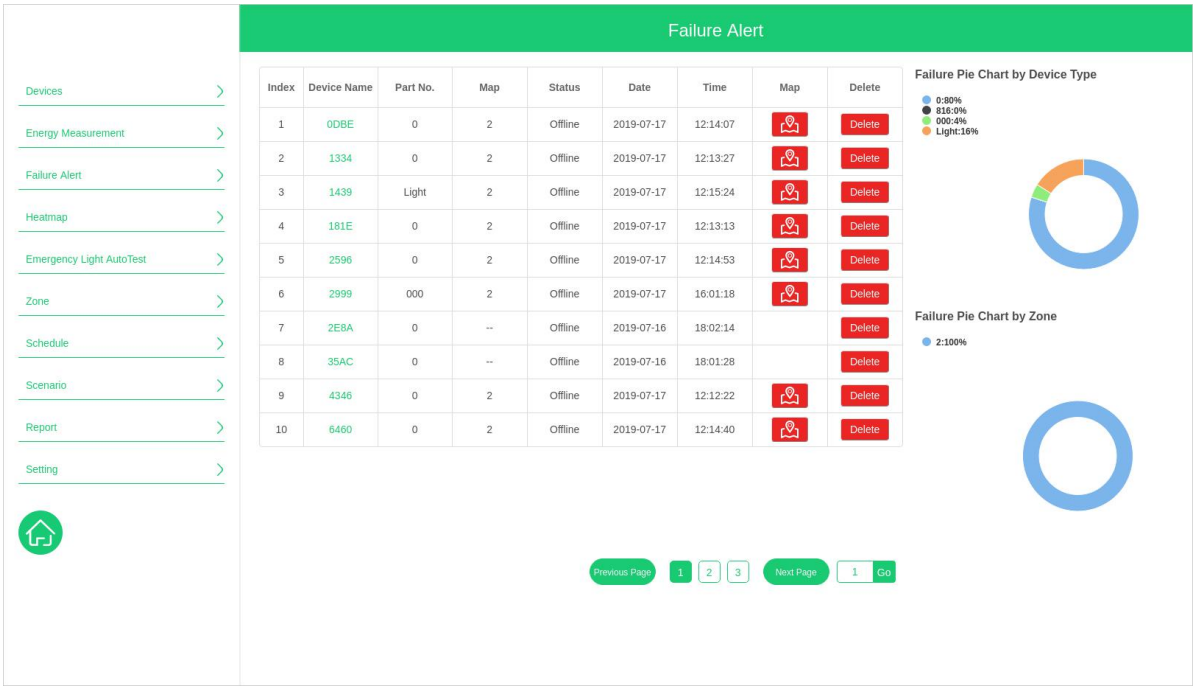
Pic 15



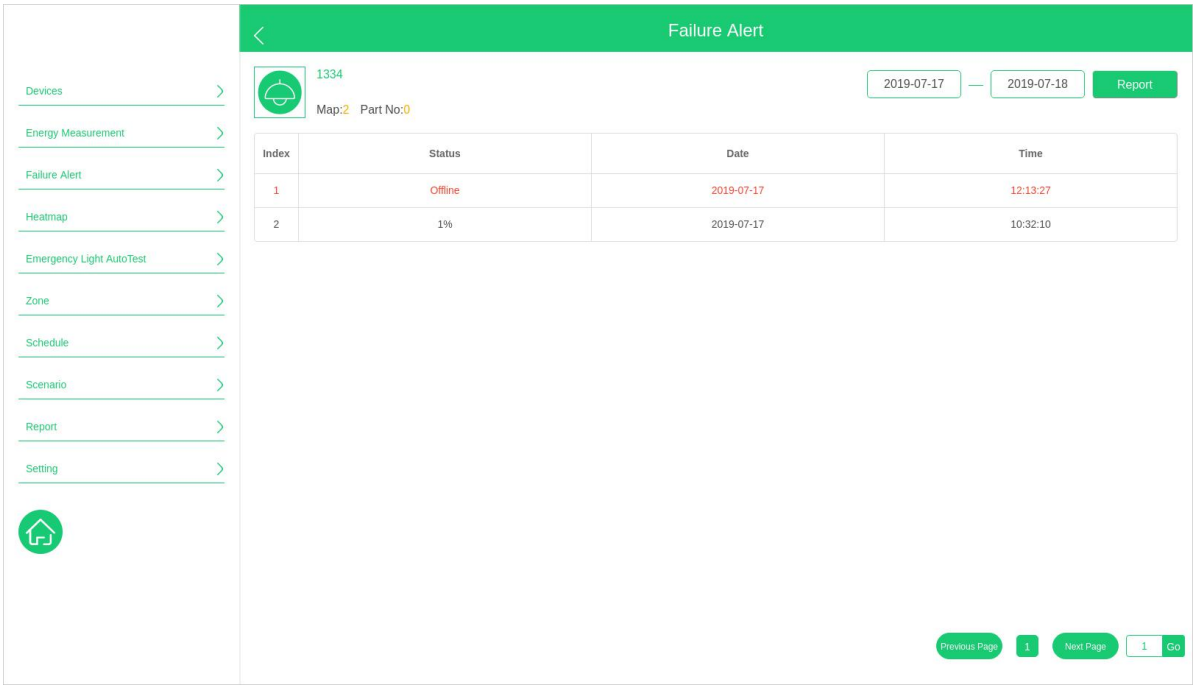
Pic 16

Advantage II ：Failure Alert

Click “Failure Alert” on Pic 2 to enter into Failure Alert interface (Pic 17). If you want to hide offline alert, check “Hide Offline Alert” in “Parameters Setting” (Pic 34). To check failure details, click a specific device from Device Name column (Pic 18).



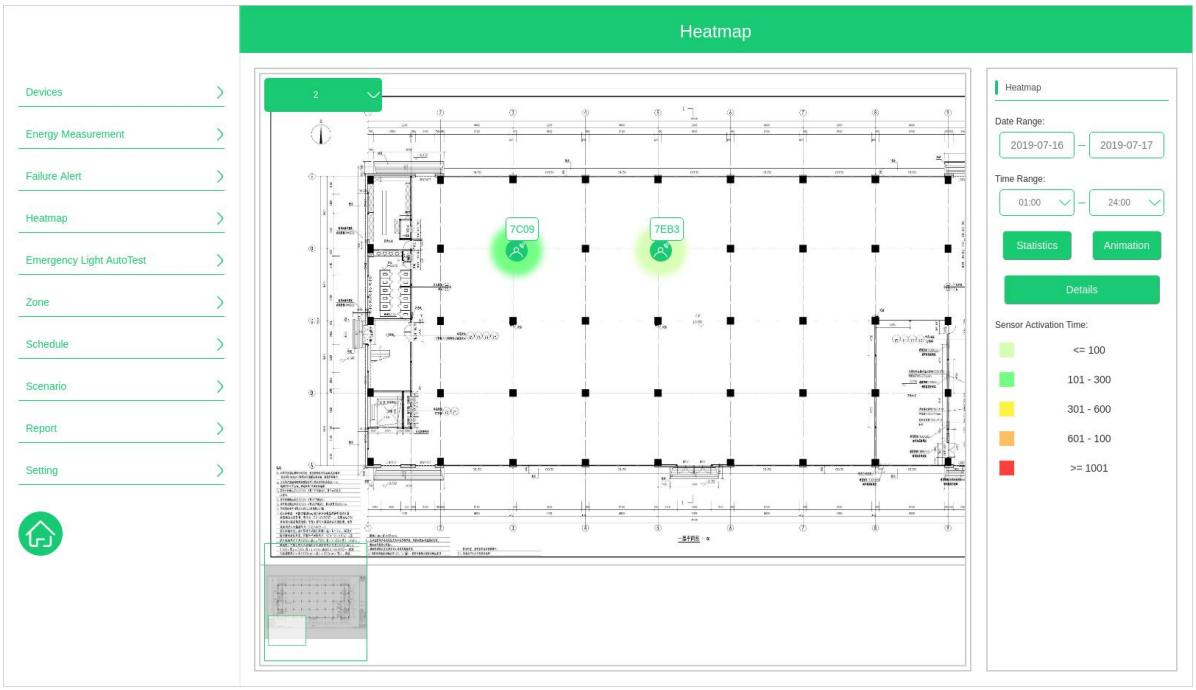
Pic 17



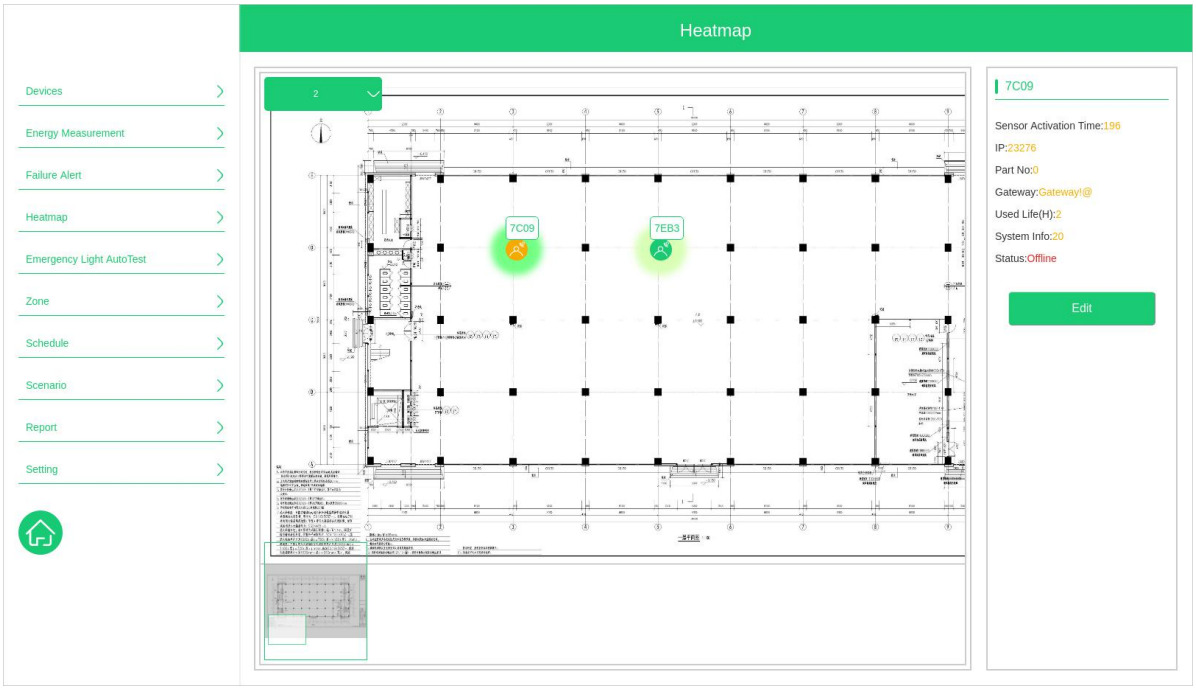
Pic 18

Advantage III ：Heatmap

Motion sensors with heatmap function help users to enhance store performance or deploy a new warehouse layout, by knowing activation time of every sensor placed. Preset “Heatmap Animation Interval” and “Heatmap Color and Activation Time” in “Parameter Setting” (Pic 34). After the motion sensors running for a while, click “Heatmap” on Pic 2 to enter Heatmap interface (Pic 19). Select Date Range and Time Range, click “Statistics” to get total sensor static activating times, click “Animation” to display dynamically according to preset interval. Click sensor to edit or get more information like activation times, IP, etc. (Pic 20)



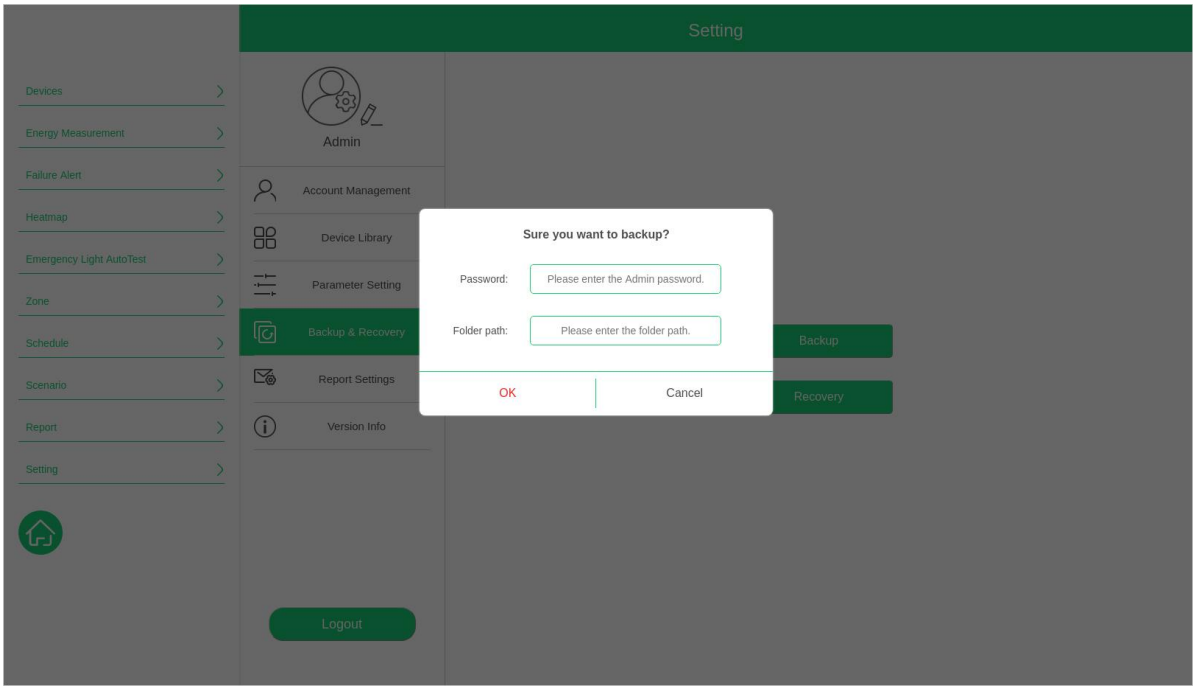
Pic 19



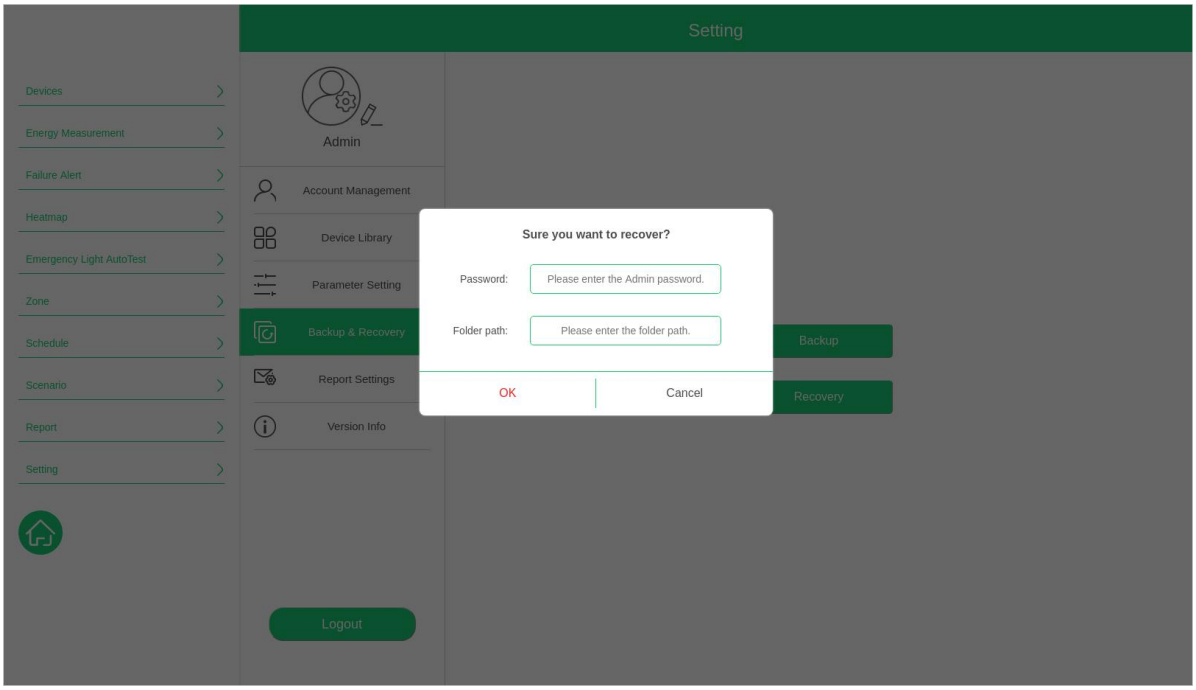
Pic 20

Advantage IV : Backup & Recovery

“Backup & Recovery” from left menu of Pic 28 helps to backup the database to local folder and recover the database from local folder to server app, when the server database is damaged or when the server app is re-installed (Pic 35, Pic 36).

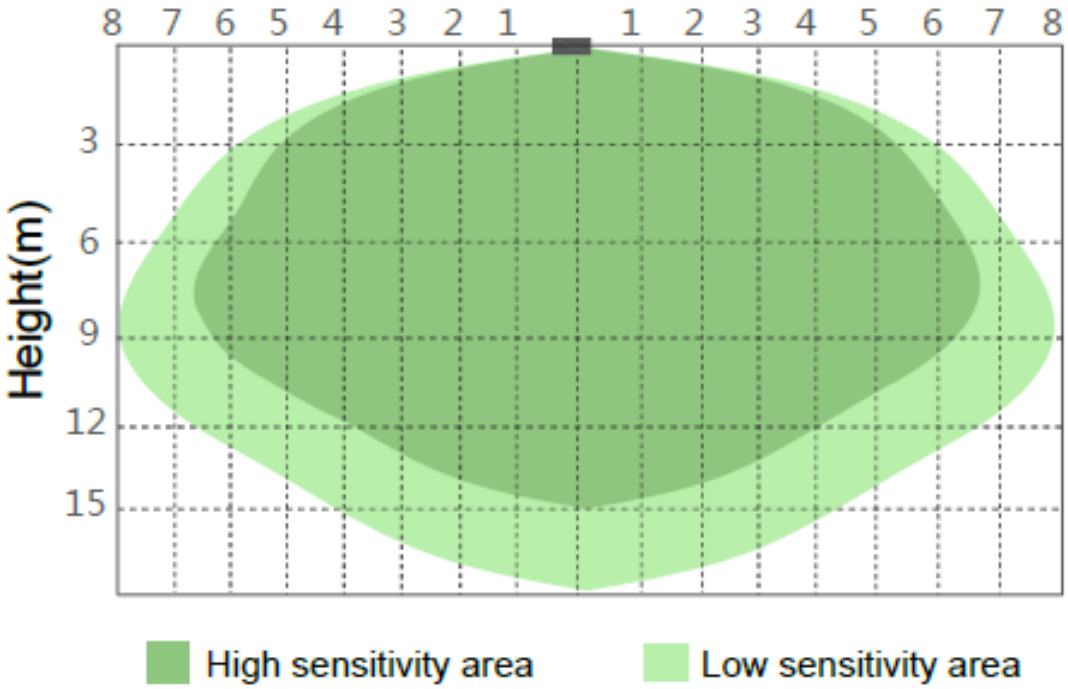


Pic 35



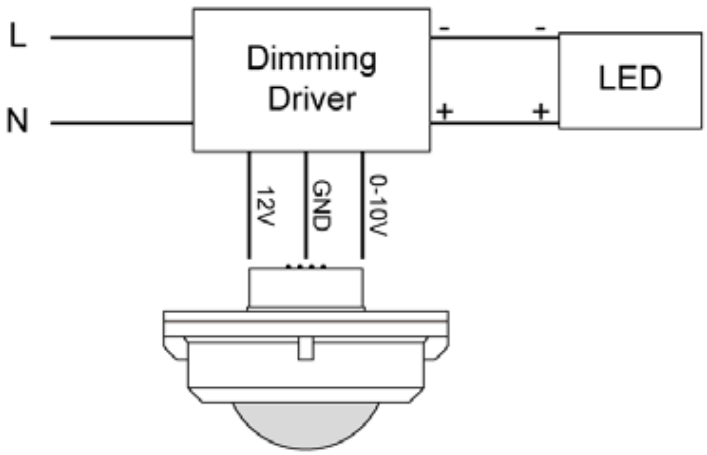
Pic 36

Detection Range



Connection Diagram

The driver itself contains direct 12DC output ability

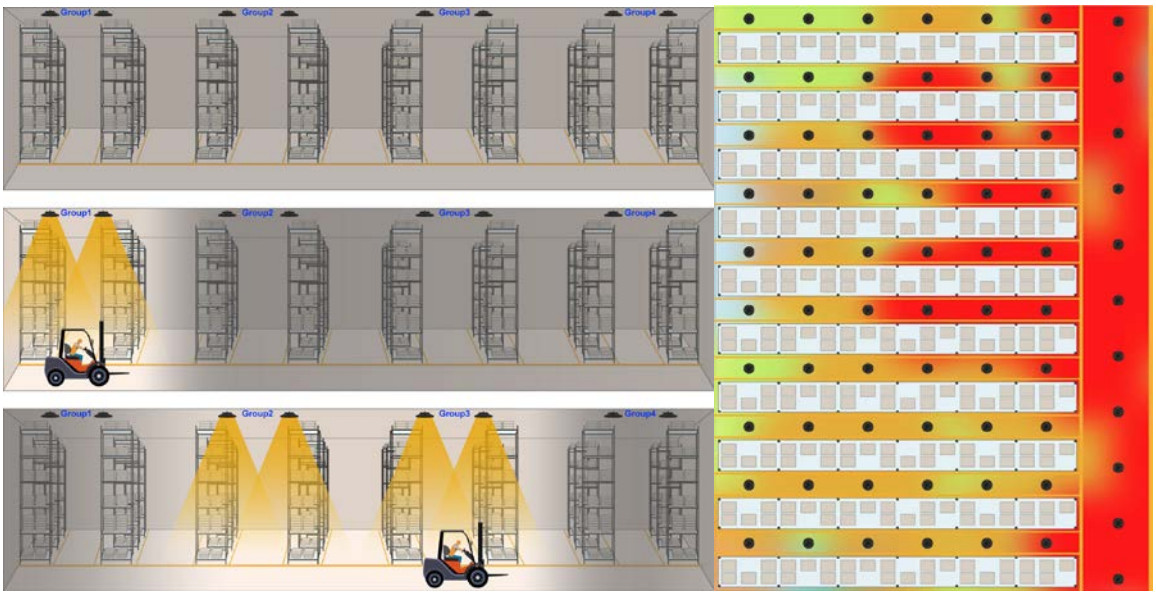


Sensor Working Demonstrations

The following steps are set by Mobile APP. Motion sensor supports heatmap function.

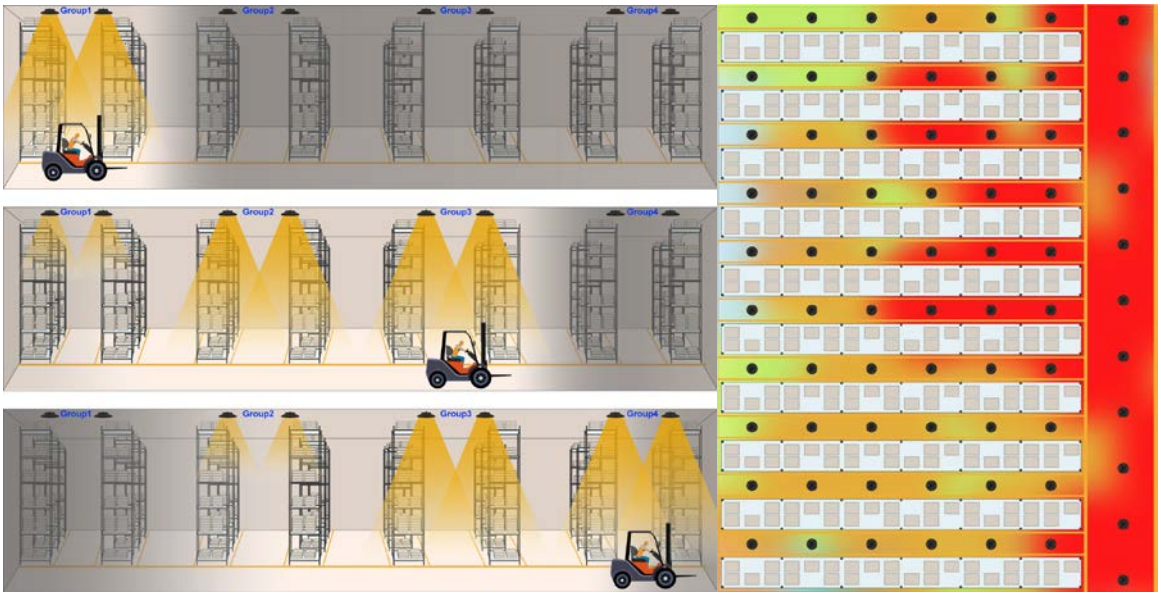
1. Motion Sensor (2-step dimming) + Daylight Sensor (disabled)

It applies to indoor environment with only electric light but no/little ambient light. Make the binding between the motion sensor, light group. Click 0s for Waiting Level Time. Set Background Level and Target Level Time. Turn on motion sensor.



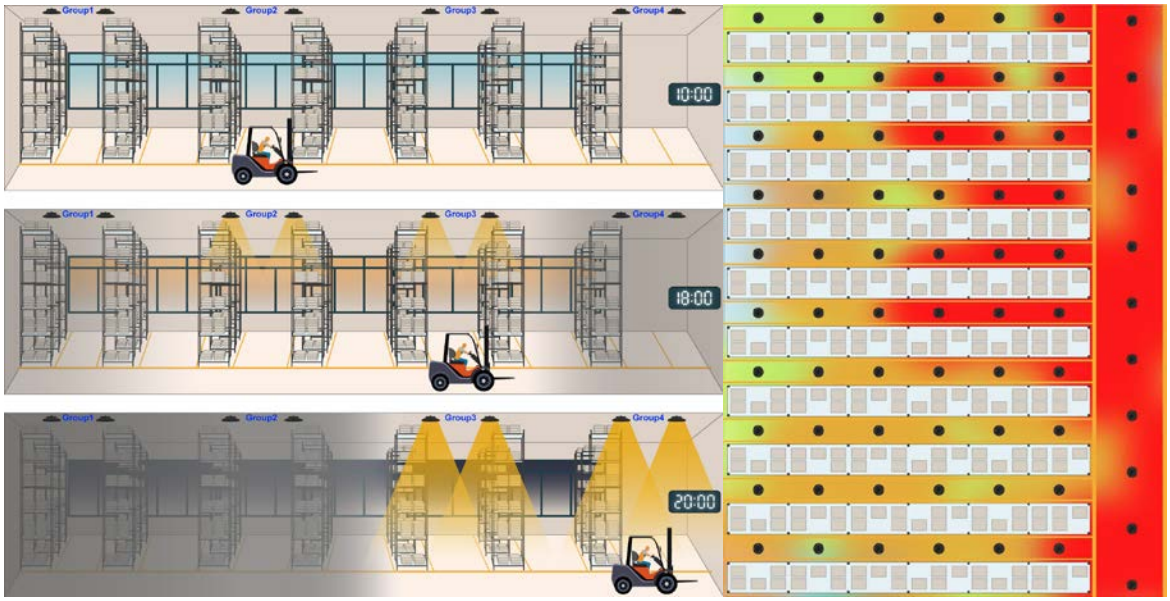
2. Motion Sensor (3-step dimming) + Daylight Sensor (disabled)

It applies to indoor environment with only electric light but no/little ambient light. Make the binding between the motion sensor, light group. Set Waiting Level and Background Level . Set Waiting Level Time and Target Level Time . Turn on motion sensor.



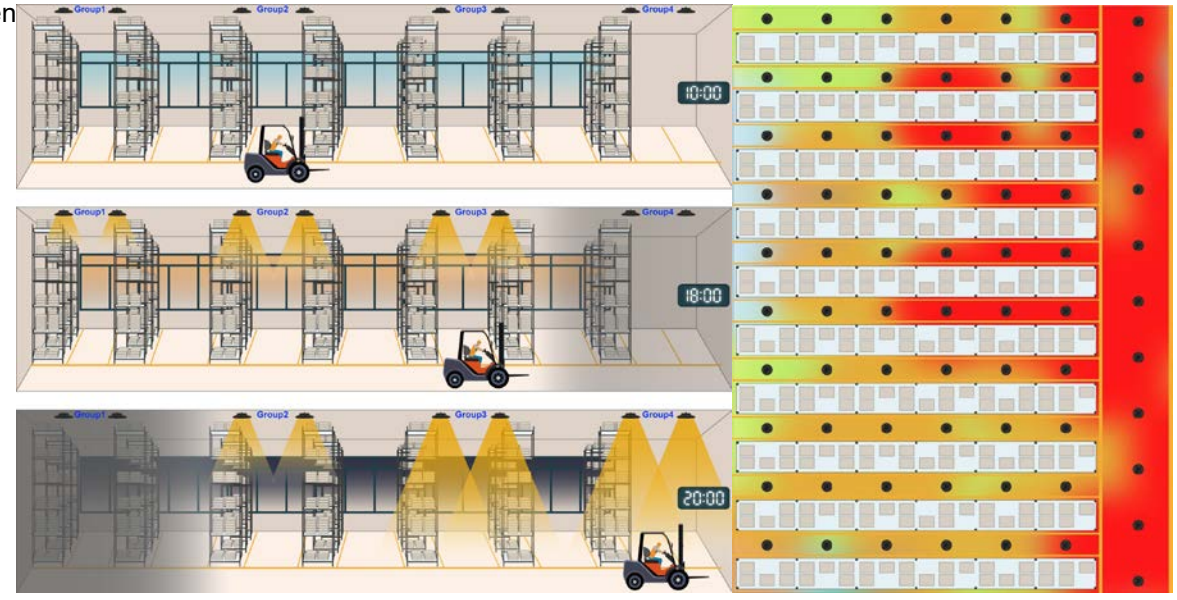
3. Motion (2-step dimming) + Daylight Sensor (constant illuminance)

It applies to indoor environment with a combination of ambient lighting (sumshine is coming through the windows) and indoor lighting. Put a lux meter under the indoor lighting, on the height where it's required to measure both the ambient light and indoor lighting. Make the binding among the motion sensor, light group and daylight sensor. Adjust the indoor lighting brightness to reach the target lux level, save it as a target value, Click 0s for Waiting Level Time. Set Background Level and Target level Time. Turn on motion sensor and daylight sensor. All steps are operated by mobile APP.



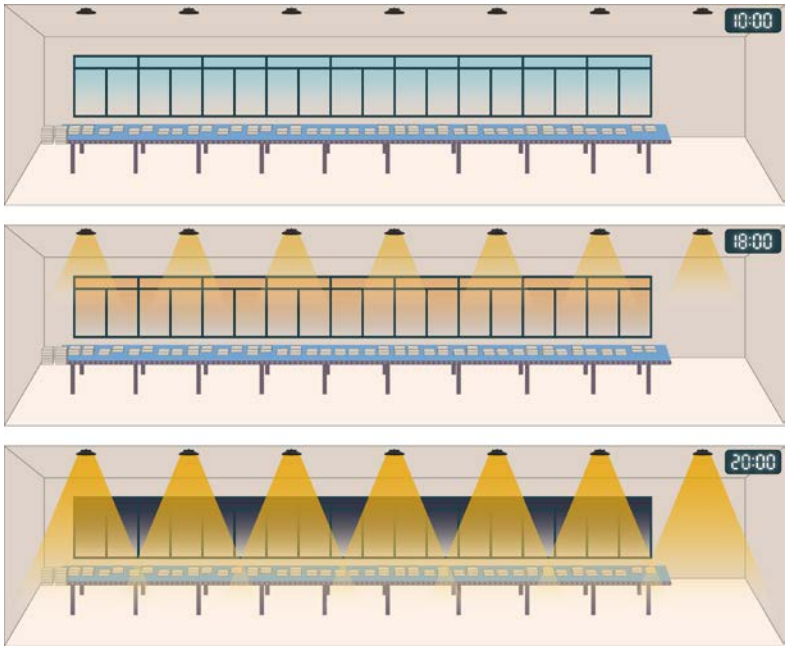
4. Motion (3-step dimming) + Daylight Sensor (constant illuminance)

It applies to indoor environment with a combination of ambient light (sunshine is coming through the windows) and electric light provided by overhead lighting. Put a lux meter under the electric lighting, on the height where it's required to measure both the ambient light and electric light. Make the binding among the motion sensor, light group and daylight sensor. Adjust the electric lighting brightness to reach the target lux level on the lux meter, save it as a target value . Set Waiting Level and Background Level . Set Waiting Level Time and Target Level Time. Turn on motion sensor and daylight sen



5. Daylight Sensor (constant illuminance)

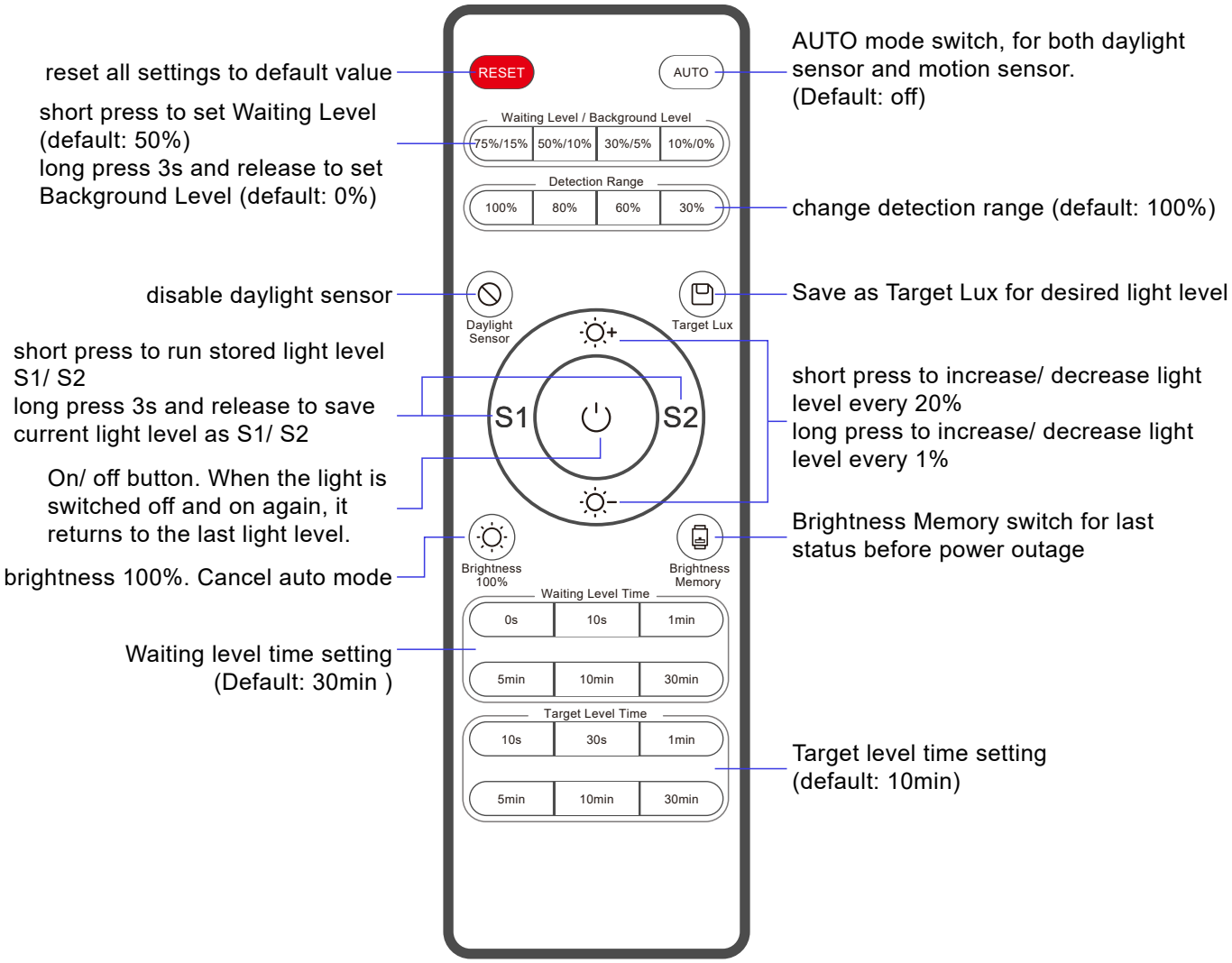
It applies to indoor environment with a combination of ambient light (daylight coming through the windows) and electric light provided by overhead lighting, whereas no motion sensor control is required. Put a lux meter under the electric lighting, on the height where it's required to measure both the ambient light and electric light. Make the binding between light group and daylight sensor. Adjust the electric lighting brightness to reach the target lux level on the lux meter, save it as a target value and turn on daylight senor.



Remarks

- The sensor should be installed by a professional electrician. Make sure power supplier is turned off before connecting main power system .
- Sensitivity will be decreased when the sensor is installed inside a lamp cover made of plastic or glass. It's about 20% decrease per 3mm in thickness of the lamp cover. PIR motion sensor is NOT allowed to be installed inside a lamp.
- Sensor detection range is subject to installation height of sensor, size of detected object, speed of movement, and installation environment.
- You may need to reconfigure the sensor parameter in a different installation environment.
- The sensor is for indoor use only. If used for outdoor, wind, rain and any moving objects around could cause the sensor to elicit a false trigger.
- The distance between any two sensors should be more than 2 meters.
- When sensor is installed inside a metal housing lamp, the metal surface or narrow and closed environment would reflect the microwave multi-times to cause a false trigger. Please reduce sensor sensitivity or move the sensor away from that location.
- Keep the sensor away from high density object such as metal, glass or concrete wall. Otherwise it may falsely trigger.
- Make sure there's no fan, dc machine, sewer pipe, air outlet and any other moving signals around the sensor. Otherwise it may falsely trigger.
- Microwave cannot pass through metals. Avoid installing the microwave sensor in a fully closed or half-closed metal lamp. Be sure there's no metal placed in front of the sensor.
- The sensor works with a 0-10v dimming LED driver for dimming purposes. Low-light effect differs from different 0-10v dimming drivers used.

Guidelines of HRCA10 Remote Control



Main Button Responses

When any button of the remote control is pressed, sensor HSSA07 LED indicator and the lamp flash will have corresponding feedback as shown below.

Key	Status	Sensor Green LED indicator	Lamp
RESET	-	Flash Twice	100% brightness
AUTO	ON	Flash Once	Flash Once
	OFF	-	Flash Once
Waiting Level/ Background Level	-	-	Flash Once
Detection Range	-	-	Flash Once
Daylight Sensor Off	-	-	Flash Once
Save Target Lux	-	-	Flash Once
Brightness Up/Down	-	-	-
S1/ S2	Short Press	-	-
	Long Press	-	Flash Once
ON/ OFF	-	-	-
100% Brightness	-	-	-
Brightness Memory	ON	Flash Once	Flash Once
	OFF	-	Flash Once
Waiting Level Time	-	-	Flash Once
Target Level Time	-	-	Flash Once